Amendments to the Claims

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A detailed list of all claims under examination is set out below. Please amend claims 1, 3-14 and 21 as shown below in marked form:

- 1. (currently amended): An apparatus for reducing the liquid content of a material comprising a particulate/liquid dispersion or suspension, the apparatus comprising a receiving zone to contain through which the material travels, at least one pair of electrodes spaced apart within the receiving zone, having a potential difference thereacross and hence across the material in use to drive electro-kinetic dewatering, and a drain to enable removal of water, wherein at least one of the electrodes comprises a textile or other synthetic material at least in part associated with a conductor, said conductor comprising a plurality an array of elongate electrically conducting elements in, threaded through, woven or knitted into the textile or other synthetic material such that the electrode constitutes where so associated a primarily polymeric filtration structure incorporating the array.
- 2. (original): An apparatus in accordance with claim 1 for reducing the liquid content of a material comprising a dispersion or suspension of inorganic particles being a byproduct of mining, manufacturing or other industrial processes.
- 3. (currently amended): An apparatus in accordance with claim 1 wherein the second at least one electrode is a conducting electrokinetic textile or other synthetic material.
- 4. (currently amended): An apparatus in accordance with claim 3 wherein the drain is formed as an integral structure with the conducting electrokinetic textile or other synthetic material electrode.

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5. (currently amended): An apparatus in accordance with claim 4 wherein the receiving zone is at least partly defined by a filtration membrane permeable to the liquid but impermeable to at least some and more preferably substantially all of the particulate solids contained within the material, which filtration membrane comprises a textile or other synthetic material at least in part associated with a conductor so as to constitute where so associated the said the conducting electrokinetic textile or other synthetic electrode material.

- 6. (currently amended): An apparatus in accordance with claim 5 wherein the filter filtration membrane is a porous sheet-like material having a primarily polymeric base structure and the array of conducting elements includes lateral current carriers and transverse current distributors.
- 7. (currently amended): An apparatus in accordance with claim 6 wherein the filter filtration membrane includes woven warp and west conducting elements in a composite material composition.
- 8. (currently amended): An apparatus in accordance with claim 5 wherein the apparatus further comprises a separate conductor so disposed within the apparatus as to be caused during use to come into contact with the filtration membrane material over at least a part of the area thereof.
- 9. (currently amended): An apparatus in accordance with claim 5 wherein the <u>at least one</u> electrode is at least partly comprised of a conductor, either in that the material is inherently conducting <u>particles</u> or in that it integrally incorporates conductive material into its structure.
- 10. (currently amended): An apparatus in accordance with claim 9 wherein the <u>at least one</u> electrode comprises a conducting geosynthetic material.

- 11. (currently amended): An apparatus in accordance with elaim 10 claim 1 wherein the at least one electrode comprises a generally inherently non-conductive geosynthetic material in association with at least one metallic or non-metallic conducting element to produce a composite conducting geosynthetic material.
- 12. (currently amended): An apparatus in accordance with claim 11 wherein the electrokinetic geosynthetic material comprises a woven or non-woven polymeric material incorporating a plurality of elongate conducting elements therewithin, in particular in one or more parallel arrays.
- 13. (currently amended): An apparatus in accordance with elaim 11 claim 1 wherein a conducting element comprises metal coated in mixed metal oxide.
- 14. (currently amended): An apparatus in accordance with elaim 10 claim 1 wherein the at least one electrode comprises inherently conducting material.
- 15. (withdrawn): A method of reducing the liquid content of a material comprising a particulate/liquid dispersion or suspension, the method comprising receiving untreated material in a receiving zone; providing at least one pair of electrodes spaced apart within the receiving zone, at least one of which comprises a textile or other synthetic material at least in part associated with a conductor, said conductor comprising a plurality of elongate conducting elements woven into the textile electrode; applying a potential difference thereacross and hence across the material to drive electro-kinetic dewatering; removing water thus driven to the cathode with a suitable drain.
- 16. (withdrawn): The method of claim 15 operated to dewater the material in situ, and comprising locating the electrodes in, and thereby creating a receiving zone in situ within, a material site such as a tailings dam or lagoon or the like, and treating the material in accordance with claim 15.

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17. (withdrawn): The method of claim 15 operated as a batch process, comprising transporting untreated material to and receiving untreated material within a receiving zone in a suitable apparatus, treating the material in accordance with claim 15, and removing the treated material from the receiving zone.

- 18. (withdrawn): The method of claim 15 operated as a continuous process, wherein the receiving zone comprises a treatment zone in a conduit between an input and an output thereof, and the method comprises feeding untreated material into the input, causing the material to travel therealong through the treatment zone where the above dewatering treatment in accordance with claim 15 is applied, and removing the treated material at the output.
- 19. (withdrawn): The method claim 15 wherein the method is applied to inorganic mining or industrial waste.
- 20. (withdrawn): The method of claim 19 wherein the mining waste comprises mine tailings.
- 21. (withdrawn-currently amended): The method apparatus of claim 14 wherein the inherently conducting material is a polymeric material comprising conducting particles.